

## AMERICAN STANDARD SERIES

# ALPHA-15A

Recommended for professional audio as a woofer in a vented or sealed enclosure. The high Qts makes it ideal for open baffle hi-fi designs.

- 400 W Program Power
- 15" Nominal Diameter
- 8  $\Omega$

APPLICATION		ENCLOSURE	
Midrange	<input checked="" type="checkbox"/>	Sealed Box	<input checked="" type="checkbox"/>
Midbass	<input checked="" type="checkbox"/>	Vented Box	<input checked="" type="checkbox"/>
Woofer	<input checked="" type="checkbox"/>	Scoop Loading	<input type="checkbox"/>
Subwoofer	<input type="checkbox"/>	Horn Loading	<input type="checkbox"/>
Bass Guitar	<input type="checkbox"/>		

### SPECIFICATION

Nominal Basket Diameter	15", 381 mm
Nominal Impedance*	8 $\Omega$
Power Rating*	
Program Power	400 W
Nominal Power	200 W
Resonance	41 Hz
Usable Frequency Range	46 Hz – 3.5 kHz
Sensitivity*	97 dB
Magnet Weight	25 oz.
Gap Height	0.25", 6.4 mm
Voice Coil Diameter	1.5", 38 mm

### MATERIALS OF CONSTRUCTION

- Copper voice coil
- Polyimide former
- Ferrite magnet
- Vented and extended core
- Pressed steel basket
- Paper cone
- Cloth cone edge
- Solid composition paper dust cap



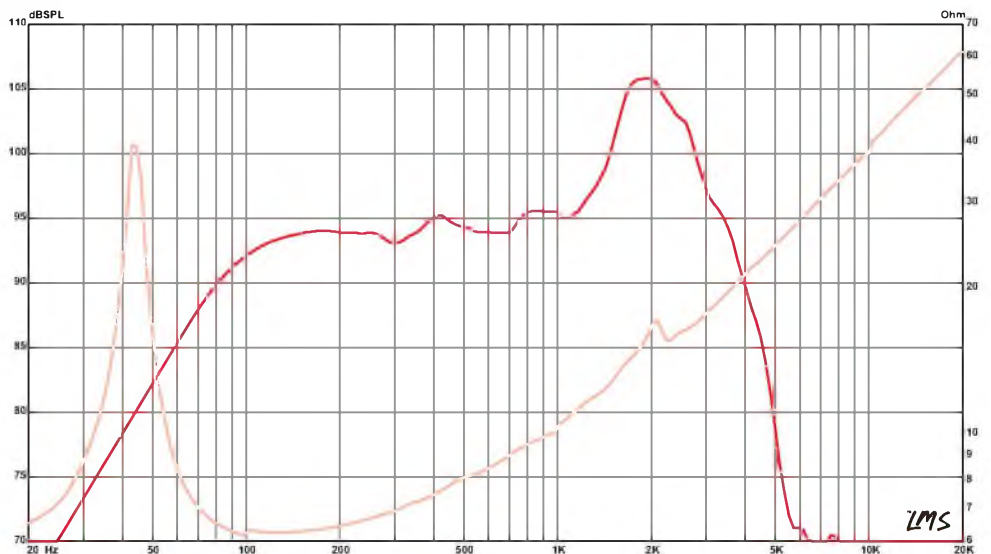
### THIELE & SMALL PARAMETERS

Fs	41 Hz
Re	5.88 $\Omega$
Le	0.84 mH
Qms	7.23
Qes	1.53
Qts	1.26
Vas	9.18 cu.ft., 260 liters
Vd	325 cc
Cms	0.25 mm/N
BL	7.7 T-M
Mms	59 grams
EBP	27
Xmax	3.8 mm
Sd	856.3 cm <sup>2</sup>
Xlim	8.4 mm

### MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	71–85 liters, 2.5–3 cu.ft.
Vented	106–177 liters, 3.75–6.25 cu.ft.
Driver Volume Displaced	0.113 cu.ft., 3.21 liters
Overall Diameter	15.15", 384.8 mm
Baffle Hole Diameter	13.87", 352.3 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.25", 6.4 mm
Mounting Holes B.C.D.	14.56", 369.8 mm
Depth	5.83", 148.1 mm
Net Weight	6.7 lbs., 3.04 kg
Shipping Weight	8.8 lbs., 3.99 kg

### FREQUENCY RESPONSE & IMPEDANCE CURVE\*



\* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.